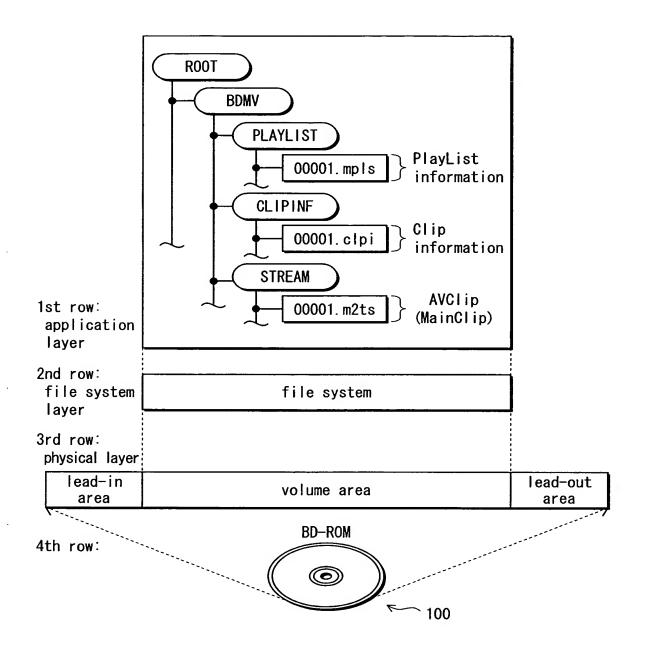
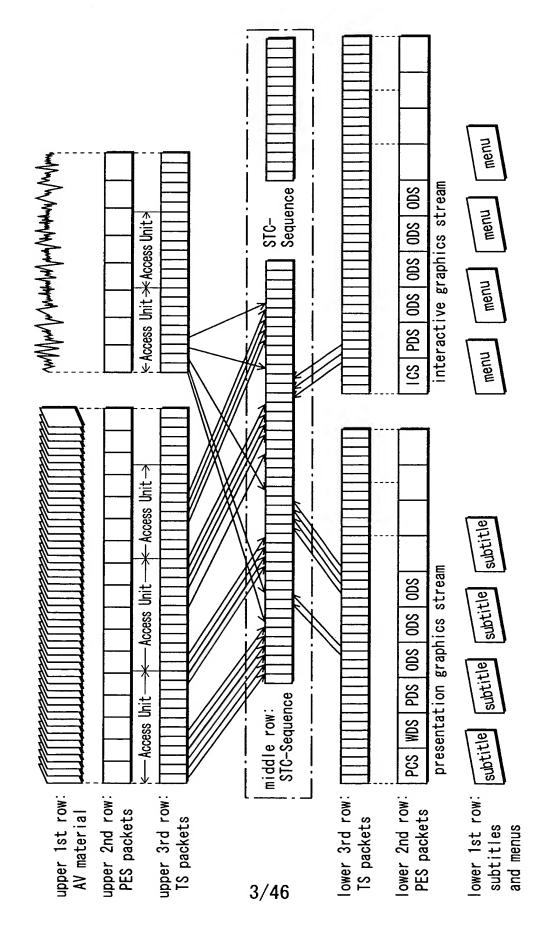


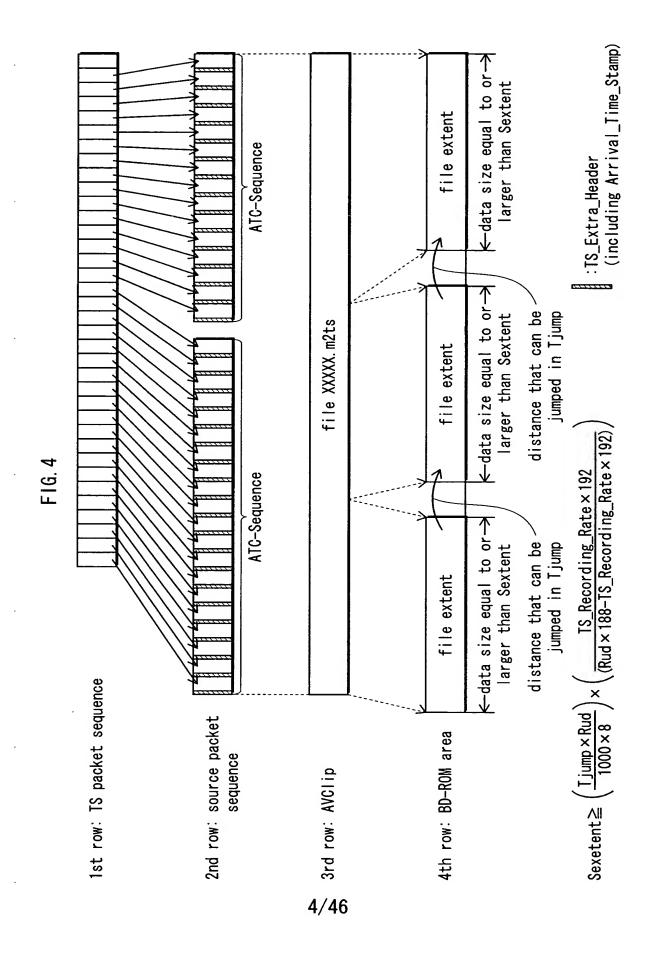
<u>.</u>

FIG. 2

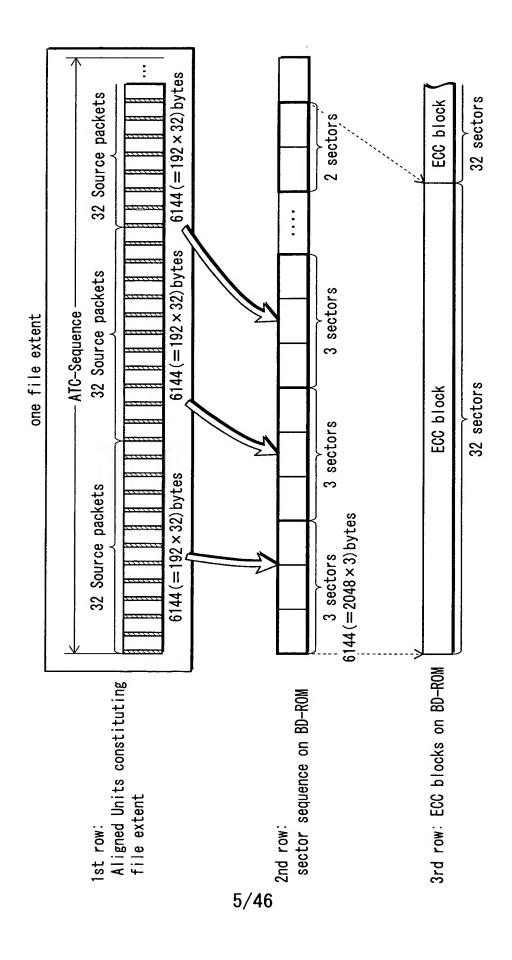


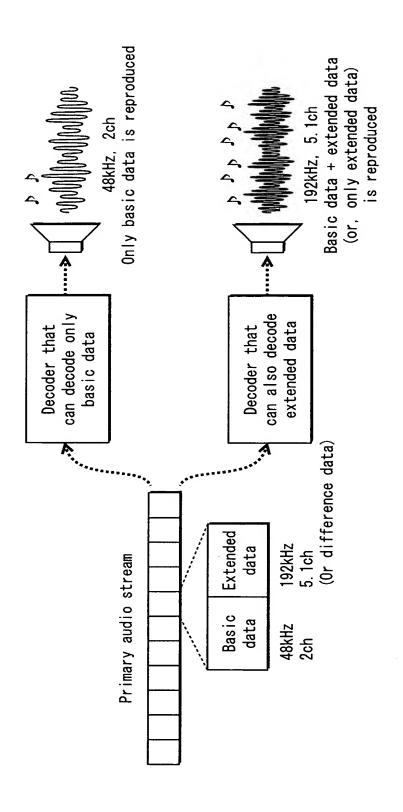


F16.3

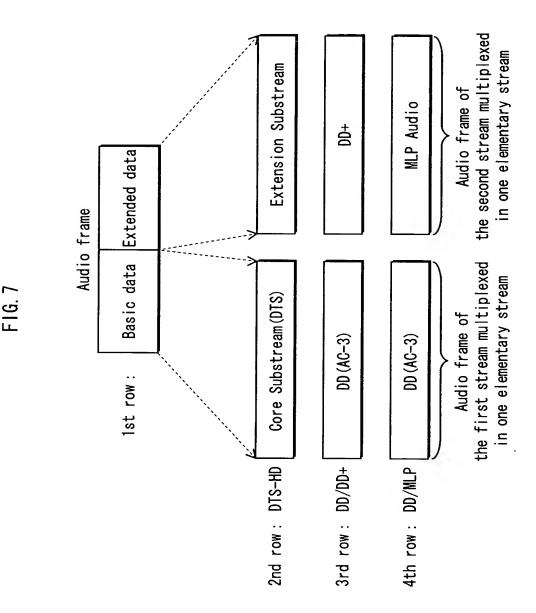


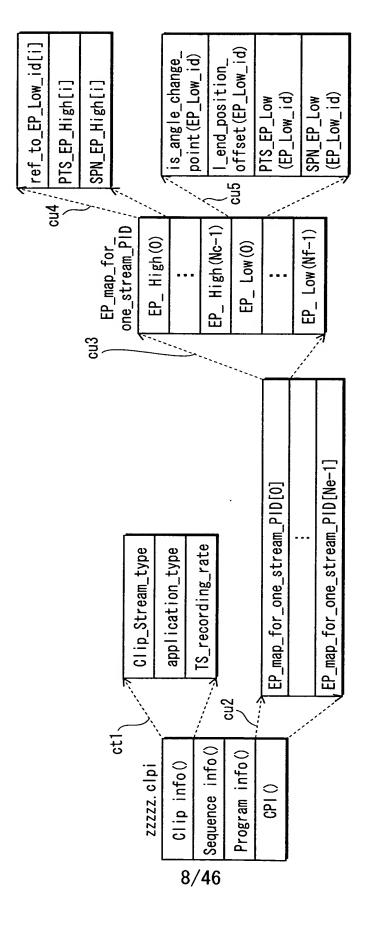




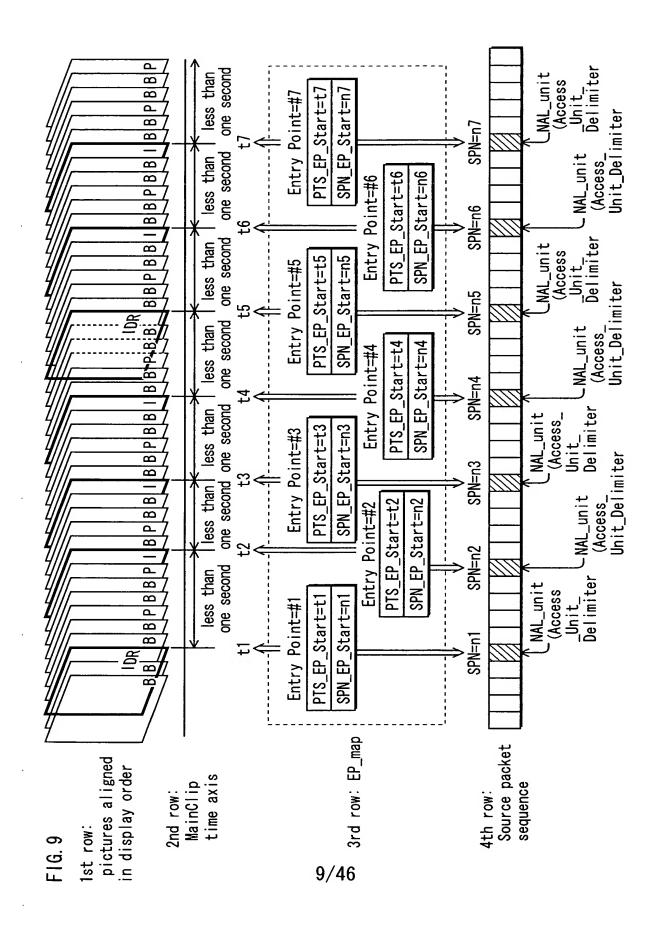


F1G. 6





F1G. 8



F1G. 10

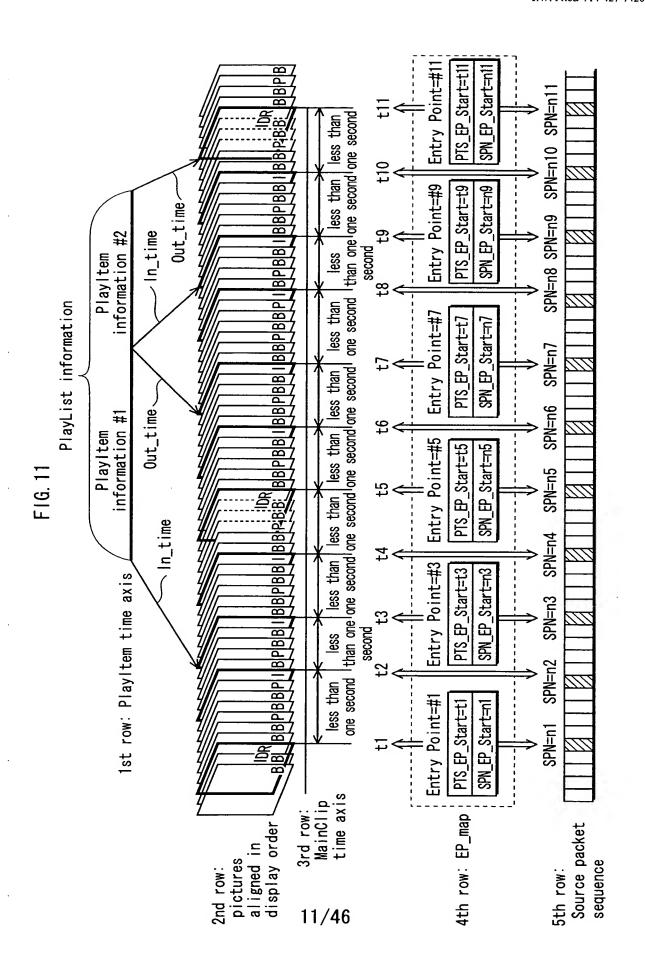


FIG. 12

## STN\_table

	number_of_video_stream_entries
	number_of_audio_stream_entries
	number_of_PG_stream_entries
Video stream permitted	number_of_IG_stream_entries
to be reproduced by $\prec$	entry-attribute
PlayItem	
	entry-attribute
Primary audio streams	entry-attribute
permitted to be	entry-attribute
reproduced by PlayItem	entry-attribute
reproduced by Flayitem	:
	entry-attribute
	entry-attribute
PG streams permitted	entry-attribute
to be reproduced	entry-attribute
by PlayItem	entry-attribute
by FlayItelli	:
Į.	entry-attribute
IG streams permitted	
to be reproduced	entry-attribute
by PlayItem	entry-attribute
by FlayILelli	

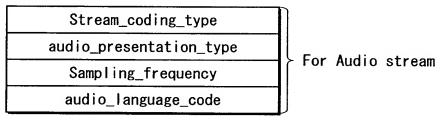
## FIG. 13A

#### Stream\_attribute

Video_format	Co.	V:doo	
frame_rate	For	video	stream

# FIG. 13B

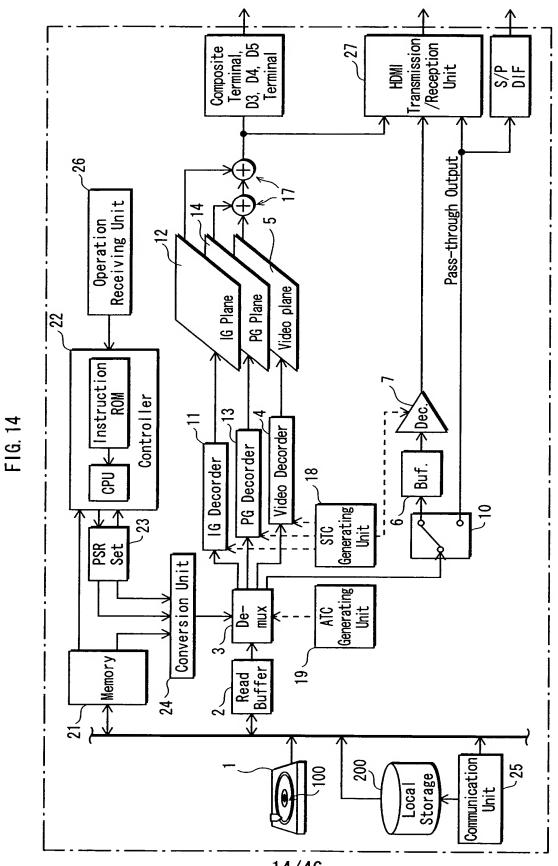
#### Stream\_attribute



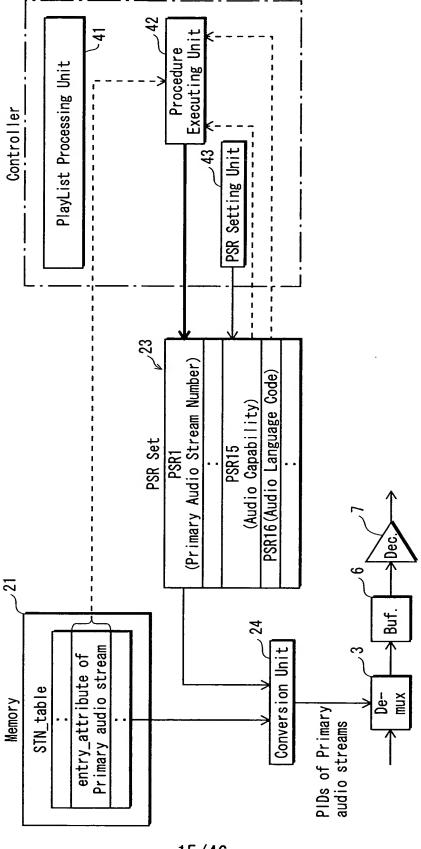
# FIG. 13C

#### Stream\_entry

ref\_to\_Stream\_PID\_of\_Main\_Clip



14/46



F16. 15

FIG. 16A

#### Status and Transition for PSR1

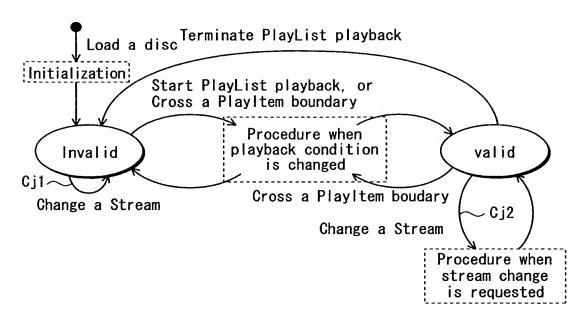


FIG. 16B Procedure when playback condition is changed S1 YES Number of entries  $in STN_table = 0 ?$ √S3 Maintain value of PSR1 NO **S2** Number of entries YES in STN\_table  $\geq$  PSR1, and condition (A) **S4** is true ? Condition (A): Maintain value of PSR1 Reproduction apparatus has NO capability to reproduce Primary audio stream PSR1 setting identified by PSR1. It is judged by comparing D PSR15 with stream\_coding\_type of Primary audio stream

**END** 

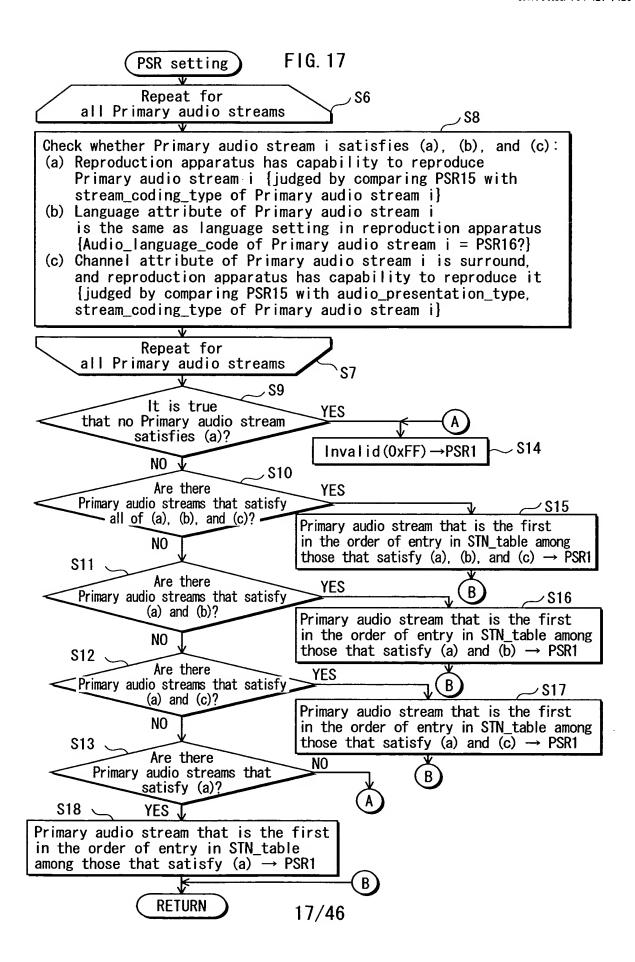
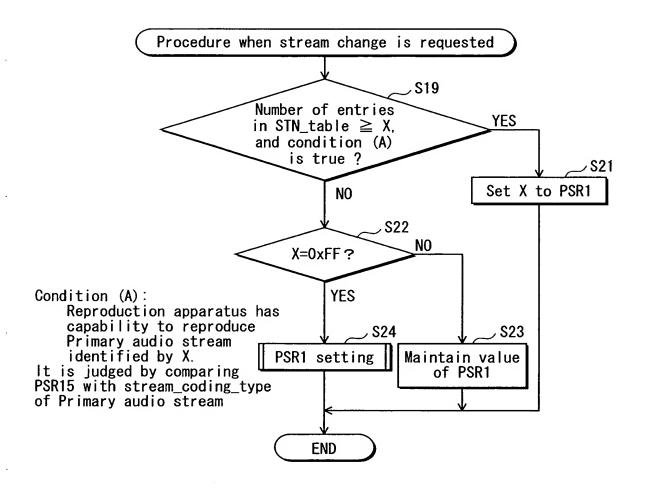
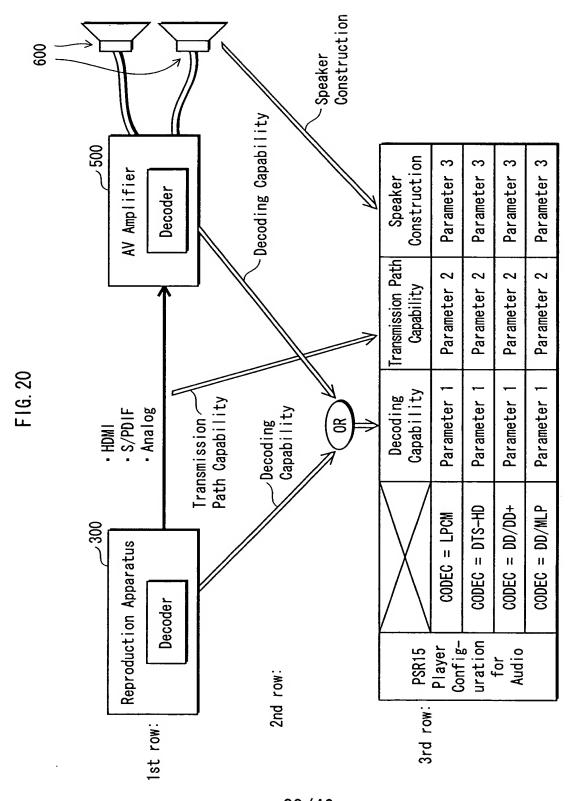


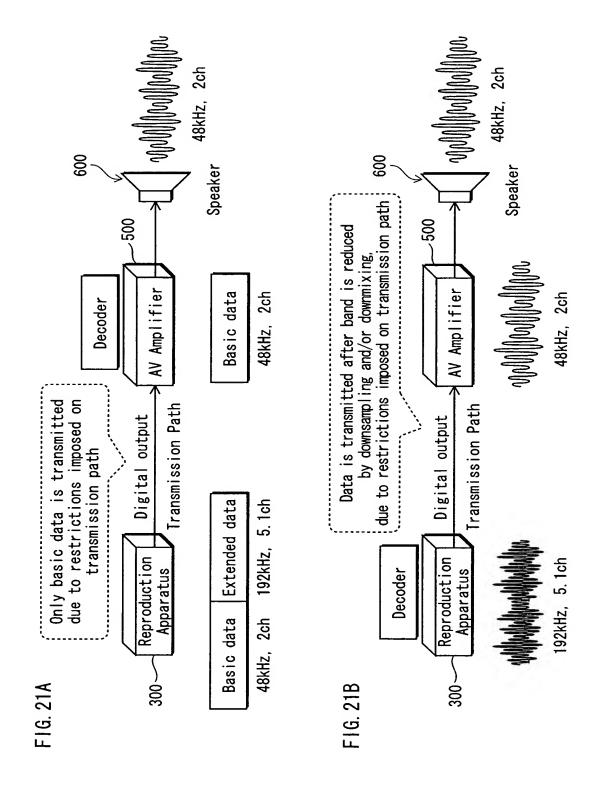
FIG. 18



								Priori		4	3	1	2		İ
								Check surround	Capability(c)	×	0	1	×	0	1
O DTS-HD ×	English	English	English	Japanese	Japanese	Japanese		Check I anguage	(q)	×	×	I	0	0	
LPCM O DD/DD+ O Japanese Yes	2ch	5. 1ch	5. 1ch	2ch	5. 1ch	5. 1ch		Check Presentation	capability(a)	0	0	×	0	0	×
15) = 16) = 15) =	+00/00	+00/00	DTS-HD	+00/00	+00/00	DTS-HD		Language		English	English	English	Japanese	Japanese	Japanese
Presentation Capability(PSR Language setting(PSR Surroud Capability(PSR	Audio Stream 1	Audio Stream 2	Audio Stream 3	Audio Stream 4	Audio Stream 5	Audio Stream 6		Channel		2ch	5. 1ch	5. 1ch	2ch	5.1ch	5. 1ch
Presentati Lan Surro	Audi	Andi	Andi	Andi	Andi	Andi		Codec		+00/00	+00/00	DTS-HD	+00/00	+00/00	OTS-HD
FIG. 19A	FIG. 19B						F1G. 19C			Audio Stream 1	Audio Stream 2	Audio Stream 3	Audio Stream 4	Audio Stream 5	Audio Stream 6



20/46



Transmission Path Stream	S/PDIF	HDMI	Analog
LPCM	Up to 48kHz/16bit/2ch	Up to 192kHz/24bit/8ch	
DTS	Output capable	Output as LPCM (output capable: note 1)	
DTS-HD	Only core substream (corresponding to DTS)	Output as LPCM (output capable: note 1)	
DD (AC-3)	Output capable	Output as LPCM (output capable: note 1)	Depend on player
DD/00+	Only DD portion	Output as LPCM (output capable: note 1)	
DD/MLP	Only DD portion	Output as LPCM (output capable: note 1)	

Note 1: It can be transmitted in the form of compressed data after HDMI standard is extended in future

	1	ביביבי	2	
	7 > 1			
5	•	5	,	

	Decoding Capability	Transmission Path Capability	Speaker Construction
CODEC = LPCM	Parameter 1	Parameter 2	Parameter 3

F1G. 23B

	Definition Column	Note Column
Decoding Capability:	Either 48/96kHz or 48/96/192kHz, as decoding capability for LPCM	Values of kHz, number of bits, and number of channels up to which LPCM can be decoded
Transmission Path Capability:	Whether transmission with three or walues of kHz, number of bits, more channels (surround) is capable and number of channels up to which LPCM can be transmitted	Values of kHz, number of bits, and number of channels up to which LPCM can be transmitted
Speaker Construction:	Whether surround output is capable	Whether surround output is capable

4	◁	١
Č	<b>Δ V</b> /.	J
•		•
9		7
Ĺ	1	
_		_

	Decoding	Transmission Path   Speaker	Speaker
	Capability	Capability   Construc	Construction
CODEC = DTS-HD	Parameter 1	Parameter 2	Parameter 3

F1G. 24B

	Definition Column	Note Column
Decoding	Whether only DTS and Core Substream	<ul> <li>Whether DTS audio can be decoded,</li> </ul>
Capability:	of DTS-HD can be decoded or	· Whether Core Substream of
	Extension Substream can also be	DTS-HD can be decoded
	pepooep	· Whether Extension Substream of
		DTS-HD can be decoded
		·Whether Lossless data can be
		decoded
Transmission Path Canability	Whether Extension substream	Whether Extension substream
ا مدا معلما ا در .		
Speaker	Whether surround output is capable	Whether surround output is capable
Construction:		

	_	
	- 3	
	C	×
	C	_
	ř	١.
	•	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
		_
•	4	
- L	20	5
	24	5
	727	207
- L	47.	C 7 7
	727	- LOJ -
110	747	Z 7 7 7
1	<b>∆</b> 47. ⊑	Z 7 7 7
- LC C	747	507 . <del>5</del> -
110	747. 51.	CO1 .5
	F15. 750	507 .N-
	7,27	507 .T-

	Decoding	Transmission Path	Speaker
	Capability	Capability	Construction
+00/00 = DEOOD	Parameter 1	Parameter 2	Parameter 3

F1G. 25B

	Definition Column	Note Column
Decoding Capability:	Whether only DD and DD portion of DD/DD+ can be decoded or DD+ portion can also be decoded	• Whether DD (AC-3) can be decoded, • Whether DD portion of DD/DD+ can be decoded • Whether DD+ portion of DD/DD+ can be decoded
Transmission Path Capability:	Whether DD+ portion (Substream) of DD/DD+ can be transmitted	Whether DD+ portion (Substream) of DD/DD+ can be transmitted
Speaker Construction:	Whether surround output is capable	Whether surround output is capable

•	-	
3	:	
=	3	
	5	
	5	
		_

	Decoding	Transmission Path Speaker	Speaker
	Capability	Capability Construc	Construction
CODEC = DD/MLP	Parameter 1	Parameter 2	Parameter 3

F1G. 26B

	Definition Column	Note Column
Decoding Capability:	Whether only DD and DD portion of DD/MLP can be decoded or	• Whether DD (AC-3) can be decoded, • Whether DD portion of DD/MLP
	MLP portion can also be decoded	can be decoded • Whether MLP portion of DD/MLP
		can be decoded
Transmission Path Capability:	Whether MLP portion (Substream) of DD/MLP can be transmitted	Whether MLP portion (Substream) of Whether MLP portion (Substream) of DD/MLP can be transmitted
Speaker Construction:	Whether surround output is capable	Whether surround output is capable

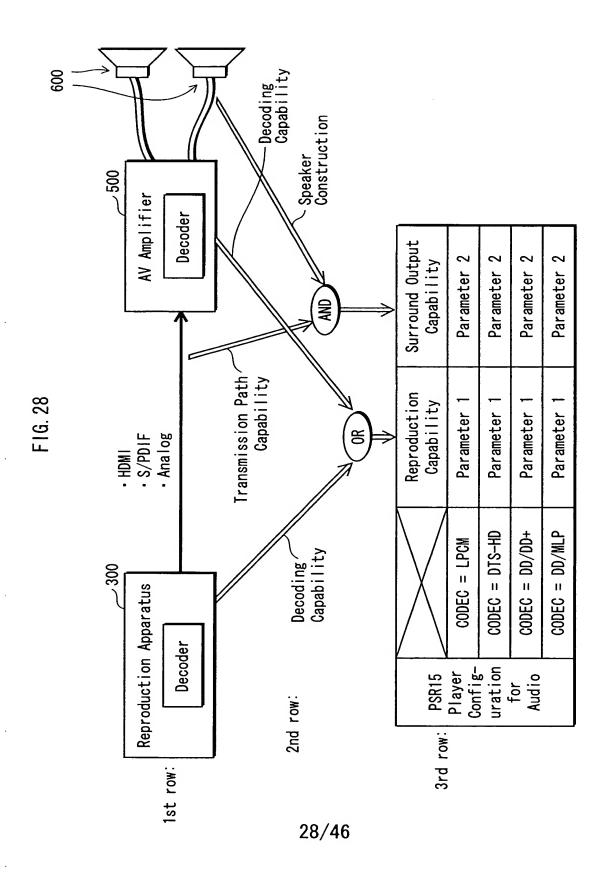
F1G. 27A

PSR15

	Decoding Capability	Transmission Path Speaker Capability Construc	Speaker Construction
CODEC = DD/DD+	Parameter 1a	Parameter 2	Parameter 3
CODEC = DD/MLP	Parameter 1b		

F1G. 27B

	Definition Column	Note Column
Decoding Capability:	Whether only DD and DD portion of DD/DD+ or DD/MLP can be decoded or DD+ or MLP portion can also be	• Whether DD (AC-3) can be decoded, • Whether DD portion of DD/DD+ or DD/MLP can be decoded
	decoded	<ul> <li>Whether DD+ portion of DD/DD+ can be decoded</li> <li>Whether MLP portion of DD/MLP can be decoded</li> </ul>
Transmission Path Capability:	Whether DD+ or MLP portion (Substream) of DD/DD+ or DD/MLP can be transmitted	Whether DD+ or MLP portion (Substream) of DD/DD+ or DD/MLP can be transmitted
Speaker Construction:	Whether surround output is capable	Whether surround output is capable



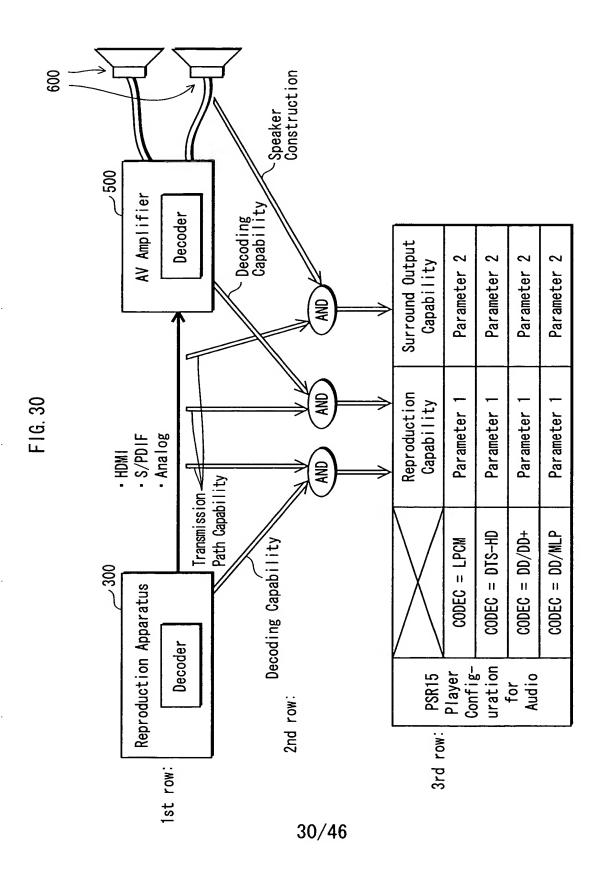
4	2	Ç	
֡	?	7	
٠	•	`	•
C	•	j	j
-	-	-	•
L	1	_	

	Reproduction Capability = Decoding Capability	Surround Output Capability = Speaker Construction AND Transmission Path Capability
CODEC = LPCM	Parameter 1	Parameter 2

F1G. 29B

		Transmission P	Transmission Path Capability
		Transmission capable with only 2 channels	Transmission capable with up to 8 channels
	Two or less	Only stereo output	Only stereo output
Speaker Construction	Three or more, or virtual surround can be achieved	Only stereo output	Surround output capable

Values to be set in Parameter 2



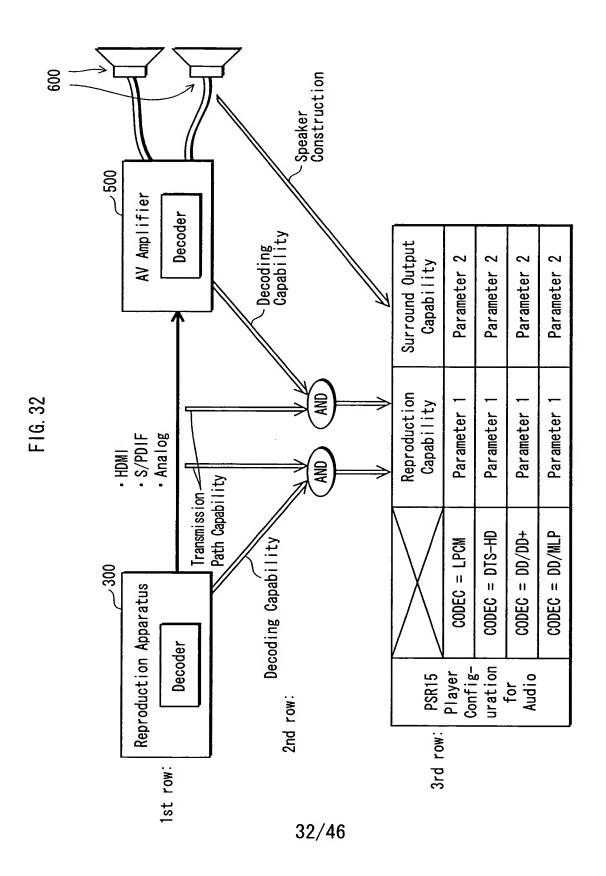
_	_		
_	~		•
	•	2	•
	•	2	į
	ı	_	

FIG. 31A	PSR15	
	Reproduction Capability = Decoding Capability AND Transmission Path Capability	Surround Output Capability = Speaker Construction AND Transmission Path Capability
CODEC = LPCM	Parameter 1	Parameter 2

F16.31B

		<del>/</del>	
ility	Transmission capable at 192kHz	Reproduction of 48kHz/96kHz LPCM capable	Reproduction capable
Transmission Path Capability	Transmission capable at 48kHz	48kHz LPCM is transmitted as it is, 96kHz LPCM is subjected to downsampling before transmission → reproduction of 48kHz/96kHz LPCM capable	48kHz LPCM is transmitted as it is, 96kHz/192kHz LPCM is subjected to downsampling before transmission → reproduction capable
		Decoding for 48kHz/96kHz is capable	Decoding for 192kHz is also capable
		Decoding	Capability

Values to be set in Parameter 1



_		_	
<u> </u>	<		-
- CC	< <b>&gt;</b> • • • • • • • • • • • • • • • • • • •		
4 C C	<>-		
4 C C C	<		

	Reproduction Capability = Decoding Capability AND Transmission Path Capability	Surround Output Capability = Speaker Construction
CODEC = DTS CODEC = DTS-HD	Parameter 1	Parameter 2

F16. 33B

ity	Transmission of Extension Substream also capable	Reproduction incapable	Reproduction of DTS and Core Substream of DTS-HD capable	Reproduction of DTS and DTS-HD capable
ath Capabil		Reproducti	Reproduction of DTS and Core Substream DTS-HD capable	Reproduction of DTS-HD capable
Transmission Path Capability	Transmission of DTS Stream and Core Substream capable	Reproduction incapable	Reproduction of DTS and Core Substream of DTS-HD capable	Reproduction of DTS and Core Substream of DTS-HD capable
		Decoding incapable	Decoding of DTS and Core Substream of DTS-HD capable	Decoding of Extension Substream of DTS-HD also capable
			Decoding	

Values to be set in Parameter 1

	_	1	-
		j	=
C	*		)
_		_	÷
`	_		_
ر ا	ı	_	_

	Reproduction Capability = Decoding Capability AND Transmission Path Capability	Surround Output Capability = Speaker Construction
CODEC = DD (AC-3) $CODEC = DD/DD+$	Parameter 1	Parameter 2

F1G. 34B

		Transmission Path Capability	ath Capability
		Transmission of DD and DD portion of DD/DD+ capable	Transmission of DD+ portion of DD/DD+ also capable
Decoding incapable	\	Reproduction incapable	Reproduction incapable
Decoding of DD and DD portion of DD/DD+ capable		Reproduction of DD and DD portion of DD/DD+ capable	Reproduction of DD and DD portion of DD/DD+ capable
Decoding of DD+ portion of DD/DD+ also capable		Reproduction of DD and DD portion of DD/DD+ capable	Reproduction of DD and DD/DD+ capable

Values to be set in Parameter 1

⋖	
35A	
<u>ত</u>	
_	

	Reproduction Capability = Decoding Capability AND Transmission Path Capability	Surround Output Capability = Speaker Construction
CODEC = DD (AC-3) CODEC = DD/MLP	Parameter 1	Parameter 2

F1G. 35B

Capability	Transmission of MLP portion of DD/MLP also capable	Reproduction incapable	Reproduction of DD and DD portion of DD/MLP capable	Reproduction of DD and DD/MLP capable
Transmission Path Capability	Transmission of DD and DD portion of DD/MLP capable	Reproduction incapable	Reproduction of DD and DD portion of DD/MLP capable	Reproduction of DD and DD portion of aDD/MLP capable
		Decoding incapable	Decoding of DD and DD portion of DD/MLP capable	Decoding of MLP portion of DD/MLP also capable
			Decoding Capability	

Values to be set in Parameter 1

FIG. 36

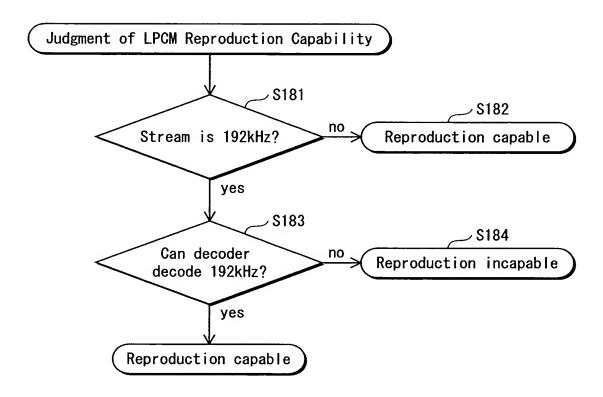


FIG. 37

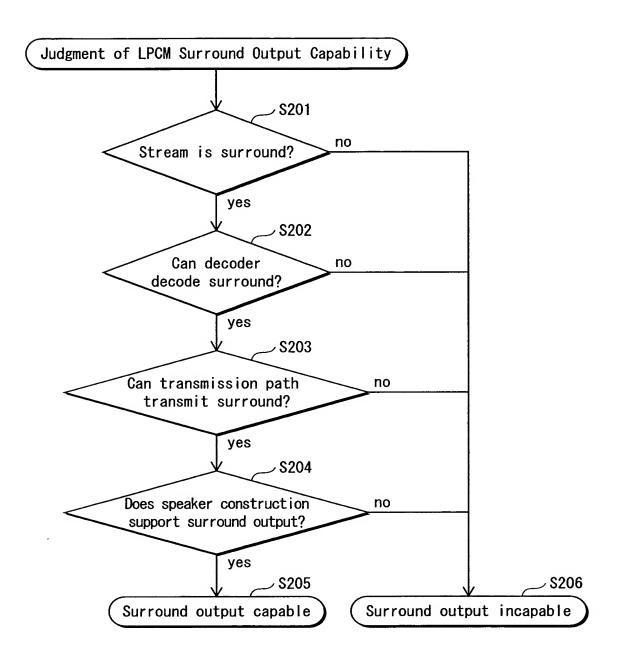
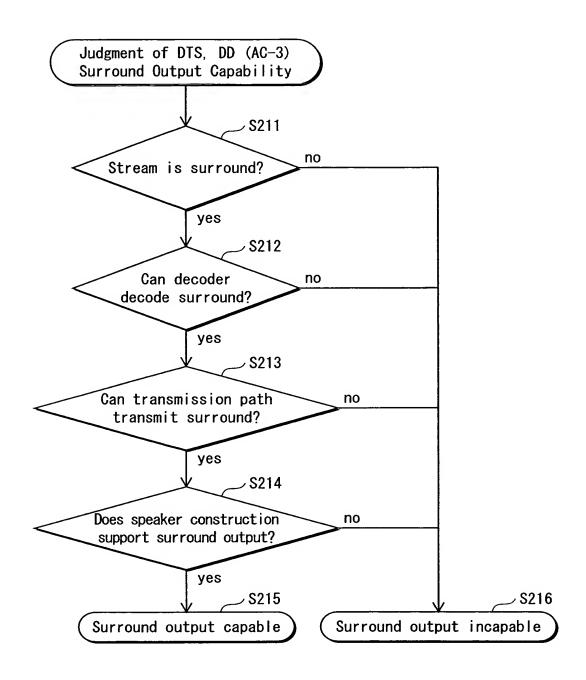
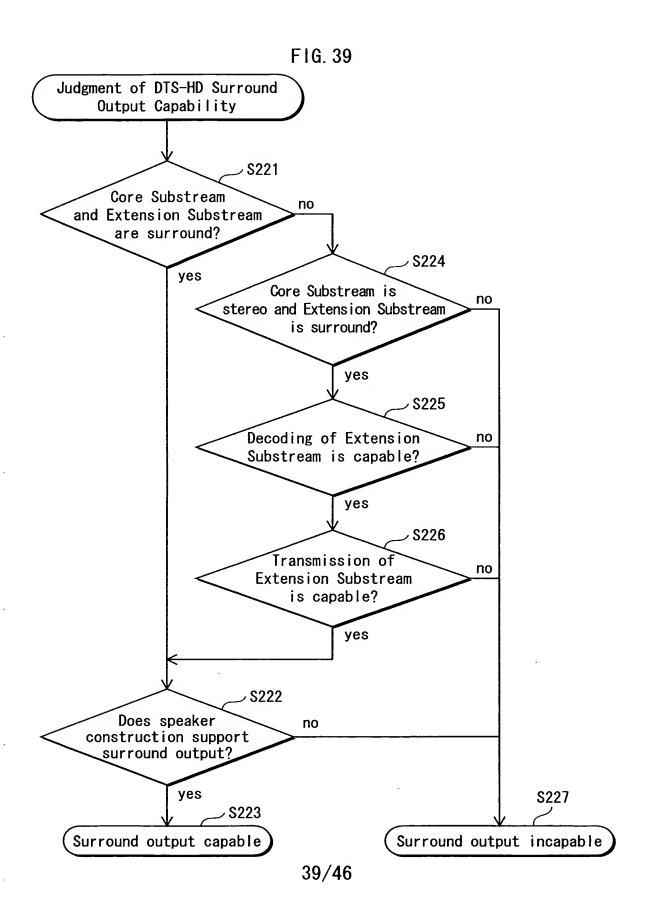


FIG. 38





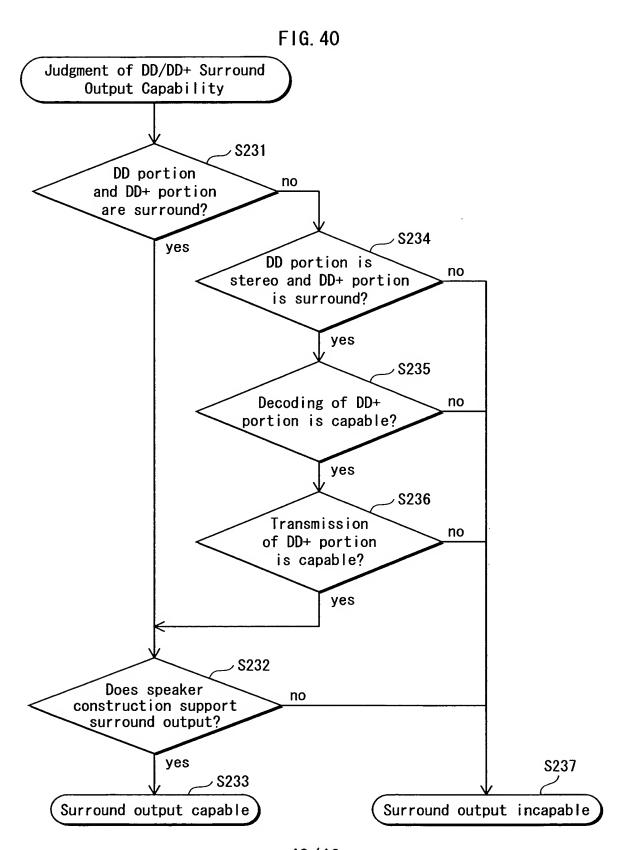
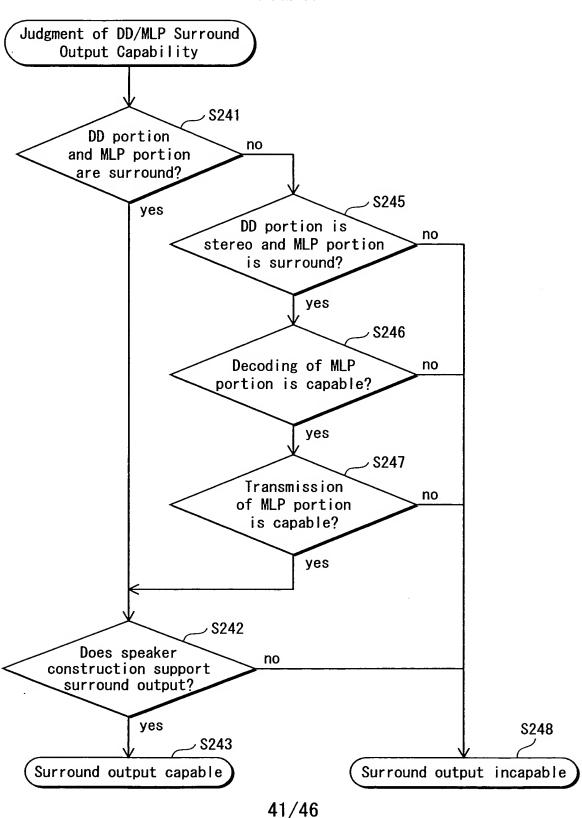


FIG. 41



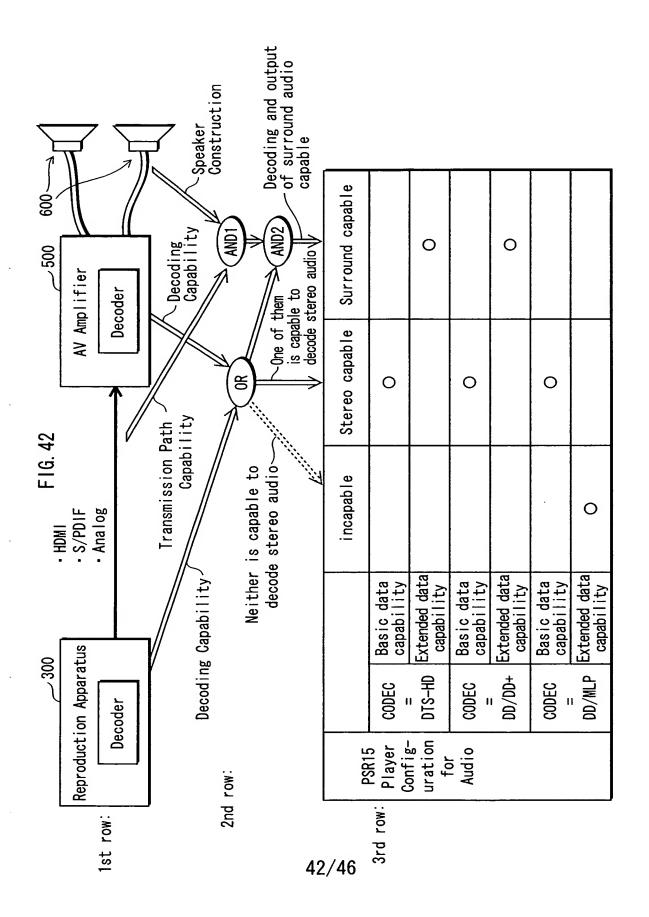


FIG. 44

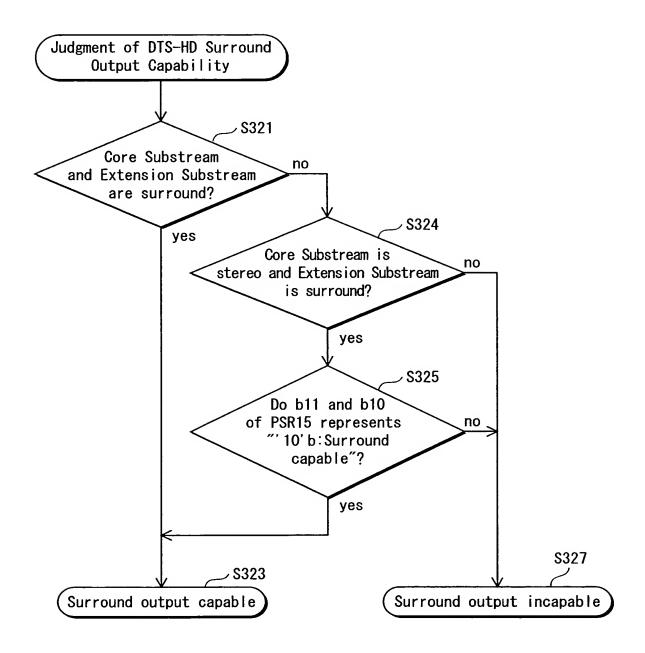


FIG. 45

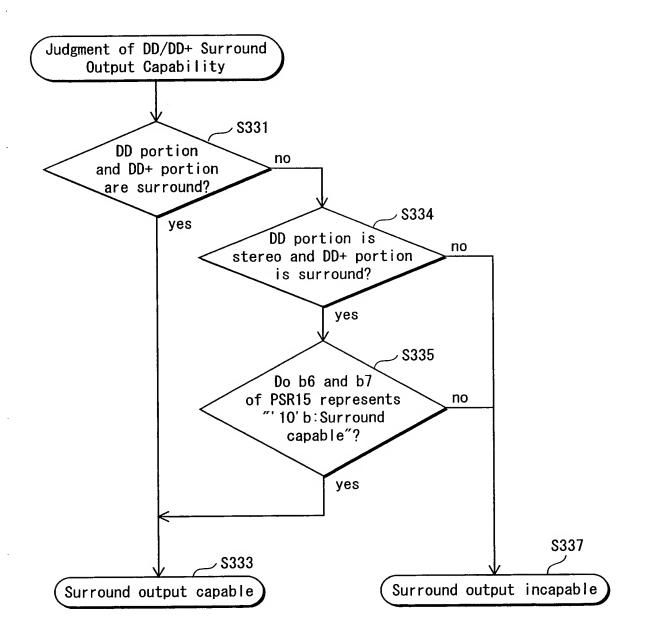


FIG. 46

